

Global Laser Water Chiller Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Laser Water Chiller market size is expected to reach \$ 1281 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

A laser water chiller, also known as a laser cooling system or laser chiller, is a specialized cooling device designed to regulate and maintain the temperature of laser equipment, particularly the laser source or laser resonator. Laser systems, whether used for cutting, engraving, welding, medical procedures, or scientific applications, generate a significant amount of heat during operation. This heat can adversely affect the performance, stability, and longevity of the laser components. A laser water chiller plays a critical role in managing and dissipating this excess heat, ensuring that the laser operates within its optimal temperature range. Laser water chillers span a very wide price range (roughly ~US\$150 to US\$20,000+), mainly driven by cooling capacity, temperature stability, and whether it's a dual-circuit fiber-laser chiller vs a general-purpose recirculating chiller.

Upstream of a laser water chiller is the industrial refrigeration and controls supply chain: OEMs source compressors, condensers/evaporators and heat exchangers, pumps and valves, refrigerants and copper/aluminum tubing, water tanks and filters, sensors for temperature, flow and pressure, plus controllers, power electronics and wiring harnesses, then integrate them with sheet-metal/plastic enclosures, safety interlocks, and firmware/software for stable temperature control and alarms. Downstream, chillers are sold either as stand-alone units or bundled by laser system integrators and OEM laser makers to end users who need precise thermal management?most commonly CO₂ laser cutters/engravers and fiber-laser cutting, welding, marking, and additive systems, as well as UV/DPSS/ultrafast lasers in electronics, medical and lab instrumentation?supported by distributors and service networks that provide commissioning, preventive maintenance, coolant management, and replacement parts over the equipment life cycle.

The laser water chiller market is benefiting from the continued shift toward higher-duty-cycle industrial lasers, especially fiber-laser cutting and welding lines where uptime, thermal stability, and quick fault recovery directly affect yield and scrap, pushing buyers from basic ?cooling boxes? toward industrialized, application-specific chillers with better control logic, alarms, and integration into factory monitoring. At the same time, the performance ceiling is rising: higher-power lasers and more compact optical heads increase heat density, which favors dual-circuit designs, tighter temperature control, higher pump pressure, cleaner coolant loops, and features like remote comms for predictive maintenance and service efficiency. On the supply side, refrigerant policy tightening?notably the EU?s 2024 revision of the F-gas framework?accelerates redesign pressure toward lower-GWP refrigerants and improved energy efficiency, which can lift engineering cost and make compliance and service networks more important differentiators.

This report studies the global Laser Water Chiller production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Laser Water Chiller and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Laser Water Chiller that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Laser Water Chiller total production and demand, 2021-2032, (Units)

Global Laser Water Chiller total production value, 2021-2032, (USD Million)

Global Laser Water Chiller production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Laser Water Chiller consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Laser Water Chiller domestic production, consumption, key domestic manufacturers and share

Global Laser Water Chiller production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Laser Water Chiller production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Laser Water Chiller production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Laser Water Chiller market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Boyd, Opti Temp, KKT Chillers, Parker Hannifin,

Refrind, SMC Corporation, Solid State Cooling Systems, Advantage Engineering, Technotrans, Dimplex Thermal Solutions, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Laser Water Chiller market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Laser Water Chiller Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Laser Water Chiller Market, Segmentation by Type:

Air-cooled

Water-cooled

Global Laser Water Chiller Market, Segmentation by Cooling Capacity:

?3?kW

3?10?kW

10?30?kW

?30?kW

Global Laser Water Chiller Market, Segmentation by Scale:

Standalone / Portable Chiller

Rack-mount / Embedded Chiller

Central Chiller Plant

Global Laser Water Chiller Market, Segmentation by Application:

Laser Cutting

Laser Welding

Laser Marking

Laser Engraving

Others

Companies Profiled:

Boyd

Opti Temp

KKT Chillers

Parker Hannifin

Refrind

SMC Corporation

Solid State Cooling Systems

Advantage Engineering

Technotrans

Dimplex Thermal Solutions

Cold Shot Chillers

OMTech Laser

Sanhe Tongfei Refrigeration

Guangzhou Teyu Electromechanical

Shenzhen Doluyo Industrial

Wuhan Hanli Refrigeration Technology

Han's Laser Technology

Shenzhen LingTong Refrigeration Machinery

Thermal Care

ORION Machinery

Key Questions Answered:

1. How big is the global Laser Water Chiller market?
2. What is the demand of the global Laser Water Chiller market?
3. What is the year over year growth of the global Laser Water Chiller market?

4. What is the production and production value of the global Laser Water Chiller market?
5. Who are the key producers in the global Laser Water Chiller market?
6. What are the growth factors driving the market demand?

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